CLAIMS

1. A device for producing a pulsating fluid stream which comprises a fluid inlet, a fluid outlet, a fluidpassage from the fluid inlet to the fluid outlet, and a blocking element, said blocking element being arranged between the fluid inlet and the fluid outlet and being rotatable about a rotational axis, the blocking element comprising a blocking member that cyclically closes and opens the fluid passage from the fluid inlet to the fluid outlet.

2. The device as claimed in Claim 1, wherein the blocking element is in the form of a rotatably mounted shaft.

3. The device as claimed in Claim 1, wherein the blocking element comprises a substantially cylindrical blocking member.

4. The device as claimed in Claim 1, wherein the blocking member is provided with at least one recess.

5. The device as claimed in Claim 4, wherein the blocking member comprises a through passage opening.

6. The device as claimed in Claim 5, wherein the through passage opening intersects the rotational axis of the blocking element.

7. The device as claimed in Claim 4, wherein the blocking member comprises an outer surface and at least one recess in the form of a depression in the outer surface of the blocking member.

8. The device as claimed in Claim 7, wherein the cross-section of the depression is substantially in the form of a segment of a circle.

9. The device as claimed in Claim 8, wherein the depression has a substantially semicircular cross-section.

10. The device as claimed in Claim 7, wherein the depression does not intersect the rotational axis of the blocking element.

11. The device as claimed in Claim 7, wherein the depression comprises a boundary surface which is substantially in the form of a surface section of a cylinder.

12. The device as claimed in Claim 7, wherein the depression extends substantially perpendicularly relative to a radial direction of the blocking element.

13. The device as claimed in Claim 1, wherein the rotational axis of the blocking element is aligned transversely relative to a mean direction of flow of fluid through the device.

14. The device as claimed in Claim 1, wherein the blocking element is rotatable at a rotational speed lying within the range of approximately 100 rpm to approximately 10,000 rpm.

15. The device as claimed in Claim 1, wherein the device comprises a rotary drive for the blocking element, said drive having an adjustable rotational speed.

16. The device as claimed in Claim 1, wherein the device comprises a pneumatic, hydraulic or electrical rotary drive for the blocking element.

17. A filter device comprising a filter and the device as claimed in Claim 1 for cleaning said filter.

18. A cleaning device comprising a unit for producing a pulsating jet of cleaning agent, said unit comprising the device as claimed in Claim 1.